Request to Archive
With The National Centers for Environmental Information
For GOES Low Cloud/Fog Products
Provided by NESDIS>OSDPD>OSPO

2017-03-29

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

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2. Name the organization or group responsible for creating the dataset.

DOC/NOAA/NESDIS > National Environmental Satellite, Data, and Information Services, NOAA, U.S. Department of Commerce

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

This collection includes NOAA GOES East (west) FD, CONUS, and OCONUS Low Cloud/Fog (LCF) product with fifteen minute temporal resolution. The products are in full horizontal spatial resolution of 4 km. Each product file contains LCF retrievals, Flight Rules, quality control (QC) flags, longitude and latitude.
An Archive Product generated through the same process as operational runs is also need to be archived.
Metadata at file level will be also archived.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2017-06-01
Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

First

6. Approximate date when the dataset was or will be released to the public:

2017-06-01

7. Who are the expected users of the archived data? How will the archived data be used?

NWS/NCEP/EMC, NWS/NCEP/NCO, NWS WFOs, Coral Reef Watch

The NWS has a strong requirement for NESDIS to continually and operationally produce satellite-derived global fields of LCF and Flight Rules from multiple geostationary satellites for high temporal resolution (defining the diurnal cycle) in order to assess and substantially improve the NWS warnings and flight rule determinations for aircraft safety.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?
No

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?
N/A

10. List the input datasets and ancillary information used to produce the data.
MODIS monthly emissivity data from NASA.
Land Mask created by SSEC/CIMSS based on NASA MODIS Collection5
NCEP GFS data
NCEP RAP data
Reynolds Daily OISST from NCDC
AVHRR global Surface Type from University of Maryland Department
Digital Surface Elevation data from NGDC

11. List web pages and other links that provide information on the data.
Surface Emissivity SEEBOR: http://cimss.ssec.wisc.edu/iremis

GFS 6-hour global forecast data files at 0.5 degree resolution in GRIB2 format from NCEP:
https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/global-forcast-system-gfs
Hourly NCEP RAP 18 hour forecast data in GRIB2 (13 km CONUS, 11.25 km Alaska, and 32 km North American)
https://www.ncdc.noaa.gov/data-access/model-data/model-datasets/rapid-refresh-rap

Reynolds Daily OISST at 0.25 degree from NCDC: https://www.ncdc.noaa.gov/oisst
AVHRR global 1km Surface Type from University of Maryland Department
http://glcf.umd.edu/data/landcover/

Digital Surface Elevation data from NGDC
https://www.ngdc.noaa.gov/mgg/topo/globe.html

Land Mask created by SSEC/CIMSS based on NASA MODIS Collection5
The land mask is derived from the NASA EOS project supplied static dataset as well as World Vector Shoreline data and DTED DEM data provided by NIMA (then DMA) and bathymetric data provided by the oceanographic community.
The original global binary file, version 3, produced in 2003 by Robert Wolfe, was converted to NetCDF and HDF for usage in the framework. Resolution: The land/ocean mask is stored in a 1 km geographic (geodetic) projection.
Filename: lw_geo_2001001_v03m.nc
Origin: Created by SSEC/CIMSS based on NASA MODIS collection 5
Size: 890 MB.
Static/Dynamic: Static
Values:
0 = Shallow ocean
1 = Land (Nothing else but land)
2 = Ocean coastlines and lake shorelines
3 = Shallow inland water
4 = Ephemeral water

5 = Deep inland water
6 = Moderate or continental ocean
7 = Deep ocean

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. ATBD
   SMM
   UM

13. Indicate the data file format(s).

1. netCDF-4

14. Are the data files compressed?

No

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

GOES East: GOES13_IMAGER_FD_YYYYJJJ_hhmm_ss_AVIATION_FOG_EN.nc
GOES West: GOES15_IMAGER_FD_YYYYJJJ_hhmm_ss_AVIATION_FOG_EN.nc
Yes, it is possible to name files according to NCEI file-naming guidelines.

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

Sample data will be provided at least 2 months before operational production commences. These will be available via ftp pull.

17. What is the total data volume to be submitted?

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate:	65GB per Day
Data File Frequency:	352 per Day
Data Production Start:	2017-06-01

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location:	Camp Springs, MD
System Name:	CHOPS
System Owner:	OSPO
Additional Information:	

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PULL

2. FTP PUSH
3. SFTP PUSH

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. User interface to order and stage data for download
2. Direct download links

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

The NWS has a strong requirement for NESDIS to continually and operationally produce satellite-derived global fields of LCF and Flight Rules from multiple geostationary satellites for high temporal resolution (defining the diurnal cycle) in order to assess and substantially improve the NWS warnings and flight rule determinations for aircraft safety.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

No

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

29. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by:	2017-06-01
Accessible by:	2017-06-01

30. Add any other pertinent information for this request.

None